

product user guide

Title

Needle Beam & Connector Plate

Issue
5

Date
May 2012

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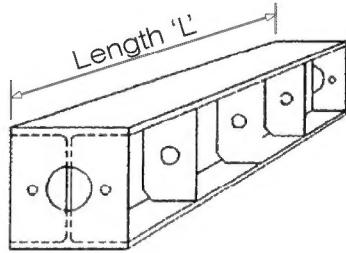
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1. Introduction

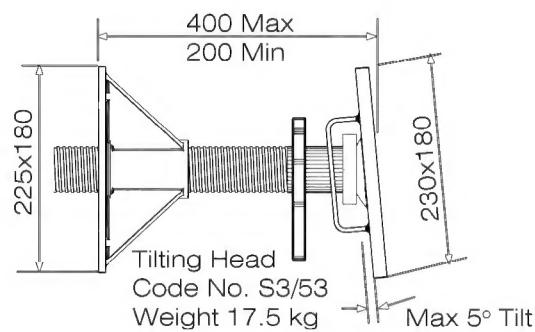
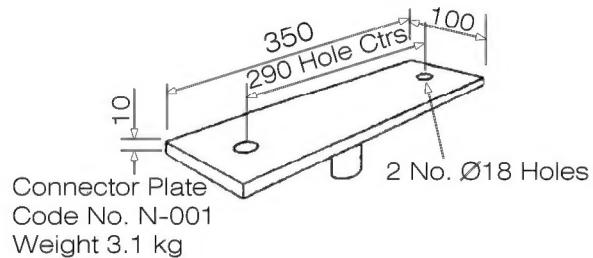
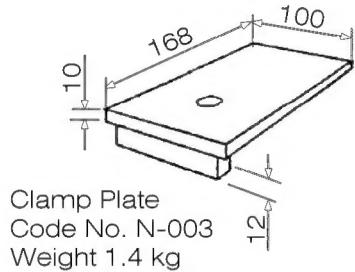
This leaflet is intended to provide basic information for users of Mabey Hire Services Needle Beam and Prop/Needle connection. The Needle Beams and Connectors are intended to be used in combination with Mabey Hire Services products in the System 160 range.

This User Information should be read in conjunction with that for the System 160.

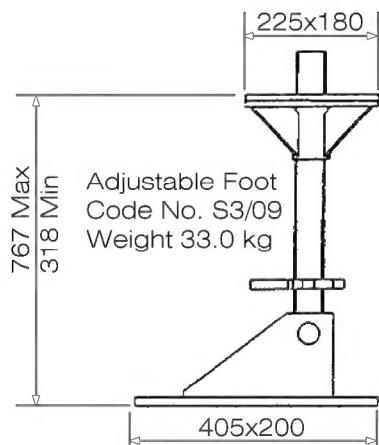
2. Identification of Components



| Needle Beam | | | |
|-------------|------------------|---------------|-------------|
| Code No. | U.C. Section | Length L (mm) | Weight (kg) |
| N-004 | 152x152x37 kg/m | 2500 | 105 |
| N-014 | 152x152x37 kg/m | 2000 | 84 |
| N-009 | 203x203x60 kg/m | 3000 | 200 |
| N-007 | 203x203x71 kg/m | 3000 | 225 |
| N-008 | 254x254x107 kg/m | 2000 | 214 |
| N-012 | 254x254x107 kg/m | 2500 | 275 |
| N-010 | 254x254x107 kg/m | 3030 | 365 |



| Mk3 Soldier | | |
|-------------|-------------|-------------|
| Code No. | Length (mm) | Weight (kg) |
| S3/1-4500 | 4500 | 101 |
| S3/1-3600 | 3600 | 82 |
| S3/1-2700 | 2700 | 62.5 |
| S3/1-1800 | 1800 | 40 |
| S3/1-900 | 900 | 25 |
| S3/1-540 | 540 | 15.7 |
| S3/1-360 | 360 | 11.8 |
| S3/24 | 360 | 18.5 |



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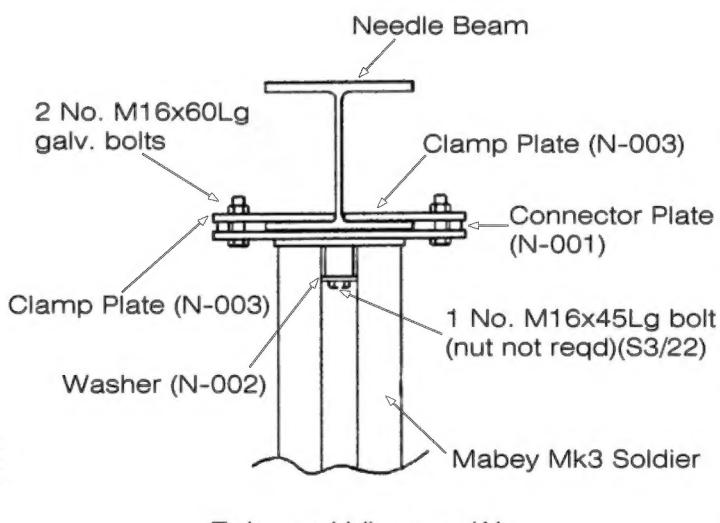
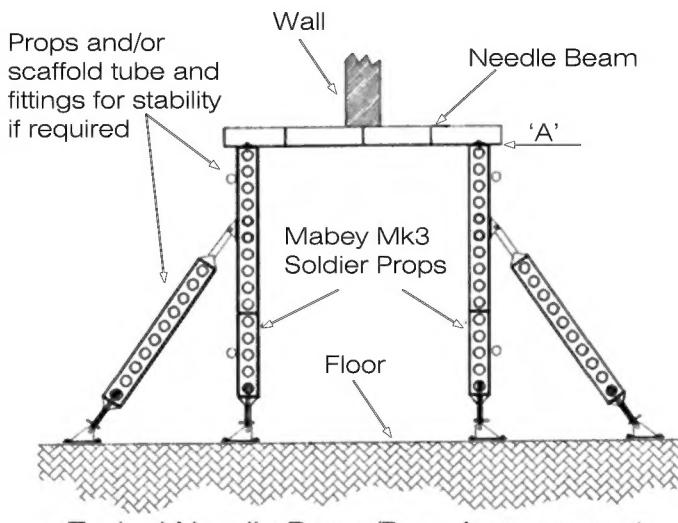
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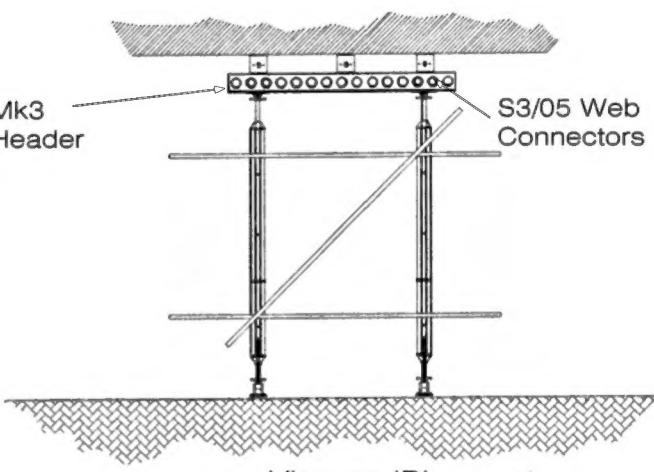
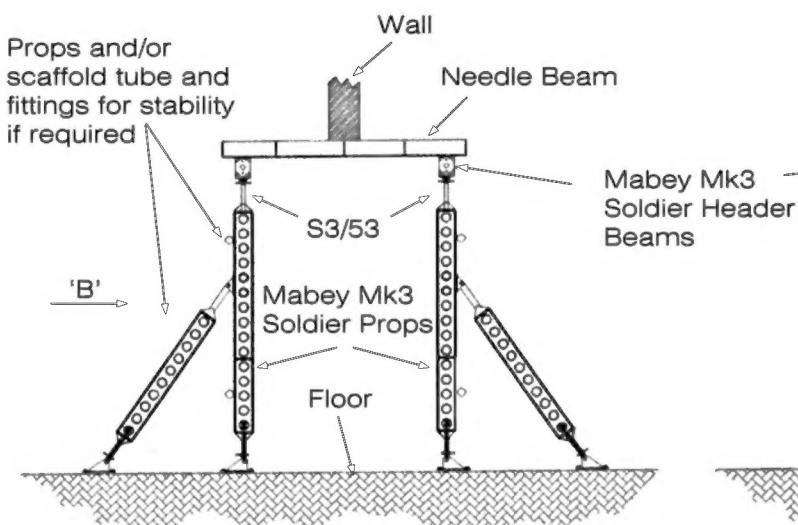
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3. Uses

3.1 The connector plate is intended to fit on top of a vertical Mabey Mk3 soldier and provide a connection onto the horizontal needle beam, typically as shown below. The connector plate is free to rotate through 360° allowing the needle to be located at any position on top of the soldier. The washer (N-002) does not clamp tight, but holds the connector plate captive to the soldier end plate.



3.2. The tilting head (which provides 5° max. tilt) is intended to fit on top of a vertical Mabey Mk3 soldier and connect onto a horizontal Mk3 soldier header beam. The needle beam is then positioned on top of the header beam at 90° to it. The tilting head provides fine vertical adjustment and the use of this arrangement allows the vertical props to be spaced at greater centres than the needle beams.



4. General

Since our policy is one of continual improvement, components may vary in detail from the descriptions given in this publication.